

3-32

40-45 fms

June 17, 1932

(S.E.)

Anasimus latus Rathbun

7 ♂ (1 very small) 2 ♀ (1 orig).

Stenorhynchus seticornis (Herbst)

3 ♂

? Goneplax hirsuta Borradaile

1 ♀ orig

Stenocionops furcata coelata

(A. Milne Edwards) 1 brk
(Carapace only)

Portunus spinicarpus Stimpson

55 in net mostly
saved
+ mostly medium or small
in size

Stenocionops spinimana Rathbun

2 ♂ 1 ♀ orig

Pardanus —

1 ♀

Paguristes —

? triangulatus

1.

4-32.
June 17, 1932.

45-46 fms.
(S.E.)
shelly bottom.

Nibilia antilocapra (Stimpson)

not before above 52 fms
Rath. p. 291.

Anasimus latus Rathbun

Stenocionops spinimana Rathbun 2 ♀ ovig
1 ♀ ovig. 44

Portunus spinicarpus

3 ♂ 1 ♀ ovig

Head Leg joint of Leucosid. 1.

? Bathyplox ^{near?} ~~plox~~ typhla.

2 ♂ 3 ♀ (1 ovig) 1 ? ♂ with
rhinocereph.
Send Boschma

Munida, 1 purple. 1

— goneoplacid?
carapace only 1.

Dardanus

Shells and ophiurans of two hauls combined 2 ♀

Channel Haul
12-15 — 32. June 23, 1932
see also 13, 14, 15 see also 9; 10; 11; -32.
17, 18, 19, 20

Podochela riisei Stimpson

10
hops
in channel

3 ♀ (2 orig).

Calappa flammea (Herbst)

2 frags. of carapace

Macrocoeloma trispinosum

var. or subsp.? (Latreille)

1 ♀

? Portunus gibbesii (Stimpson)

1 ♂ + 1 ♀ in sugar
(? P. spinimanus Latreille).

Lobopilumnus agassizii
(Stimpson)

1 ♂ 1 juv

3 or 4 little Xanthids undet.

Sta. 21-32 72-60 fms

Stenocionops spinosissima (Saussure)
(Stimpson)

Acanthocarpus alexandri

9 ♂ 5 ♀ turned over
to Boyden.

2 ♀ (1 orig) in sugar vol.

1 ♂ 1 ♀ orig to Stone

1 ♂ 1 ♀ orig to Williams

2 ♂ 2 ♀ (1 orig) left in sugar vol.

Portunus spinicarpus
Stimpson

1 ♂ 4 ♀
Large phyllosome larva, found among
debris in dredge
table

? Iliacantha

2 ♂, 1 ♀ orig
1 ♂ 1 ♀ orig
both carapace

Anasimus latus Rathbun

2 ♀ orig (1 in sugar vol.)

Porcellana sigsbeiana

8 searching 2 broken (m. Edw.
sample because with mud caught in shell)

Sta. 22-32 39 fms (several large rocks)
Stenocionops spinosissimus (Saussure) 2♂/♀

Portunus spinicarpus
(Stimpson)

22♂ 11♀

Stenorhynchus seticornis (Herbst)
~~Schubert~~

5 ^{inf. spec.} ~~♂~~ (1/2?) ♂ 3♀ (largest = ♂
(1♂ to Williams) 29 mm in length
(leaves 4) of carapace

I found several more of each in other
bottles from this station and added to
bottles containing above.

Vial of *Aphirogaster*, 2 kinds
~~large Phyllosoma larvae.~~

11 Hermit ^{-in shells} (2 in sugar vol.)

Bryozoa, Sponges, Mollusks, Hydroids, Aeyonarians

sta

25-32

125-65 fms

a single *Peneus*

Iliacantha

? *Raninoides*

3 or 4 *Anasimus calus*

3 or 4 - *Athusa mascarene*
Americana

Acanthocarpus alexandri

1/2 gal.

10 or 11 large *Stenocrion*

Sta. 26-32 | 60 fms
-60

Hardanus. several

Ethusa mascorone
americana "

Anasimus talus

Pezosoma to Boyden

" larva

" fragment

Thaeg. cyphomedusa

} saved

"

2 or 3 *Stenocionus*

Portunus spinicarpus

large Hermit.

Sta. 27-32

43 fms
shelly bottom

Stenorhynchus several
good sized

2 Stenocranus

lot of Hermit

Sta. 29-32 140-79 fms
140-77 fms

Acanthocarpus alexandri

Raminoides several

~~*Bathypogon*~~ ~~*sphaerophorus*~~ ~~*calanoid*~~

5 *Anasimus latus*

③

July 2, 1932

29-32 — 140-79 fms

Left dock	6.20	
Pass Red buoy	6.55	
Sound	8.50	= 140 fms
Over	8.57	
Bottom	10.22	= 360 fms cable

Ship seemed anchored
hauled in and

Sound 11.00 = 79 fms

Apparently struck ridge
encountered on first haul
of June 30.

2 flounders, 1 Brodiaea 1 red
scorpaenid?, globular
sea urchins, 2 spiders (Anasimus)

30-32 — 156-135 fms

Run S	10 mins	Sound 108 fms
" "	8 "	" 156 fms

Over	11.40	cable out 460
Bottom	12.40	
Up.	1.25	
Deck	2.17	
Sound	2.20	= 135 fms.

Numerous
crabs; other
species of
Acantho carpus

Sta. 30-32 / 156-135 fms.

Acanthocarpus bi-
spinosus 6 or 8

3 or 4 *Benthocarpa schmitti*.
Large red legged sp. ded. | 8 or 10
20 geym. = *Richmania*
crassa

Bathynodes superba
one gal.

few small
Acanthocarpus alexandri

Chelodactylus
munida ~~*argentea*~~ 9±

Raminoides

White Permin

geym claw from.

July 2, 1932 (cont'd)

④

31-32 - 49 fms.

Run N.

Sound 3.05 = 49 fms

~~Net~~ over 3.10

Startup. 4.05

Deck 4.20

Return 4.25

Pass Red Buoy 5.25

numerous flounder
"Goster" fish, small gaily colored.
Large Calappa

Sta. 31-32

49 fms

~~shelly bottom~~

Portunus spinicarpus

1/2 gal

Hermit, in mollusk jar.

Hypochoncha

1 large *Stenocranus*
spinosissima

1^{very} large *Calappa*
plain colored

July 7, 1932

Haul # 35-32.

Depth from haul
60-64 feet

Sept dock 8.00 a.m.

West side White Shoal

Net over 8.20

Tow S.W.

40 fms cable out

Start up. 8.43

Surface 8.45

few fish, black
cut change

36-32

Repeat of # 35

Depth from haul
60-64 feet

Net over 9.00

Bottom 9.07

Start up 9.35

On deck 9.40

many fish and
flounders.

37-32

(Depth from haul
58-64 feet)

Trawl between red buoy
head of channel east of
White Shoal to black channel
buoy.

Net over 10.00 a.m.

Start up 10.15

Surface 10.19

fair haul
fish.

38-32

Lost net between black
channel buoy. C.3. over 10.30 up 10.40

July 8, 1932...

Three dips with orange-fee
lucker, and 3 Ranks with boat
dredge' (last one canceled net wrecked)

O.P. Bucket

39-32, - (12 1/2 fms, 1/4 - 1/2 mile
S.W. red buoy east of Bush
Key; soft compact mud,
which showed many small
shells and shell fragments
on washing; forams, and
a few crustacean fragments.

40-32, O.P. Bucket - (13 fms.)
10 mins (1 engine) S.W. preceding
soft mud as above,
1 Crangon, 2 Synalpheus, 2
Callinassa

41-32, O.P. Bucket - (14 fms.)
near black buoy S.W. of Red
one. Coarse sandy mud
many black specks, shell fragments

41 (cont'd.) July 8, 1932.

shells + fragments in working
several sipunculids, 2 Eury-
plax nitida, Parthenopea
~~clams~~ clams, 1 Callianassa

42 - 32 Boat dredge hauled
N.E. from last station liquid
^{gray} mud: shell fragments
1 Euryplax nitida, 1
Cranzon, 2 Synalpheids,
2 translucent shrimp (Palaeomon?)

43 - 32 Boat dredge, in
continuation of preceding
N.E. toward red buoy,
1 amphipod, 1 Cranzon
shell frags. ~~found~~ ~~no~~
matted red alga, no mud
few shell fragments

44 - 32 not used net wrecked too near
red buoy.

#47-32

367-325 fms

also a small
Phronima in
test.

July 15, 1932

Polychaetes 3

Geryon

2.

Bathynomus

1 small.
6 inch chit

Bathyplex lythra 4 ♂ 8 ♀ (1 orig)

1 small spider crab ^(V)

Muricea birds dried. 13.

heptopsis aculeata

hematocarcinus 17
lost together. (216 + 1 Paralytic
with broken rest)

1 Pasiphaea

1

Glyptocrangon

~~1 sh. each~~

3 but species

1 sh. large
one

"

"

"

2 small of
other

1 Hermit in anemone replaced shell

July 16, 1932
#47-32 \rightarrow 367-375 fms Sailed at 5 a.m.

Bar Red #2 buoy @ 5.33.

Run S. 2 hrs. 30 mins. (8.00 a.m.)

Sound 8.05 = 367 fms.
Lead wh. 8.23.

Net over 8.30 - 1125 fms cable.

— 10.07 vessel not moving

at surface 11.15 few fish, many
crustaceans.

Sound 11.20 = 375 fms Lead wh. 11.45.

#48-32 Run N. about 30 m.

Net lost! cable broke. 12.15 p.m.

Sound 12.20 p.m. = 289 fms

Sound after 10 mins more = 217 fms Sailed wh 12.30.

Net over 1.00 p.m.

Bottom 1.45

660 fms. cable.

Sound 2.14 (Net lost glass
at surface.)

Sound 2.53 p.m. = 312 fms.

#49-32 98 Ths
July 15, 1932

Rochinia crassa 67 19
181 to 182

Parthenope montalesii 4.

(Sessile barnacles on one
stalked on another of smaller spec.)

Ranillia

Penus? sp?

Anasimus. calus.

1

Round ovid urchins

July 16 - 1932 (Cont'd)

98 fms.

#49-32

Run with 30 mins.
after fixing netting.

Sound 3.50. = 149 fms ^{depth} 3.55

Sound completed 15 mins.

Sound 4.15 p.m. = 98 fms.

here are.

On bottom 4.35 p.m. 302 fms cable.

Start up. 5.00

Start home 5.15 Dock. 9.30 p.m.

#51-32 July 18, 1932
430-392 fms.

Polychaetes 4+5+3

1 large red Plesiothenus a. Anteus
coln as in Bourner.

Muricea thick tri spined part

My

1

Heptopus aculeata
agus

1

Glyptocrangon

1+1

Bathypagis typhla

4

(1 with burrhead
attached)

Shrimp

red

Pandidid?

with median
spines on
abdomen

6 no behind
eye

hematocarcinus

Pandidid

1 (short rostr)
with long rostr. abnormal

Octopus!

Barnacle on coral

July 18 - 1932
 #51-32 \rightarrow 430-392 fms
 Leave dock 4.45
 Pass Red #2 buoy 5.20.
 Start sound 8.20 a.m. = 430 fms ^{9.4.} (Sound in
 Look 23 min
 here over 8.49 a.m.
 Bottom 9.40 = 1270 fms.
 Sound in 10.05 vessel motionless ^{Cable out.}
 At surface 10.48
 Sound 11.37 a.m. = 392 fms.

 #52-32 \rightarrow 392-375 fms
 Begin haul from end
 of preceding one.
 Sound 11.37 a.m. 392 fms.
 Haul over 12.00 noon.
 Bottom 1.00 p.m. 1030 fms cable
 (hauled in to 1000) out.
 Start up 1.35
 Sound 2.36 = 375 fms

Good haul except for quantity
 deep sea sponges.

52-32

392-357 fms.

✓ Polydora 3

✓ Nephtys caelesta 3

~~and dead carapace only~~ 5

✓ Glyptocarcinus 20

✓ Nematocarcinus (Haliporus) 12

Pandalid? 1

Patella carapace 1 brk.

Bathypora typhla. 128

(long 7 with large burr made
in leg)

157 (orig)

✓ Munida (1 with bopyrid) 8

✓ Munidopsis 5 (one ^{small one} with small
pink growth on side
of carapace to de Saubert)

1 Octopus 1 Penaeid shell

1 crinoid stalk ^{discarded} like others 3 saved / 20 sample.

#53 - 32

1 shell with ^{short red} alcyonarians

1 pc. coral with ^{as is} hydroid.

1 small glyptocrangon.

Could this have been
left over from previous
haul? may be diff
species.

July 18, 1932 (contd)
53 - 32. \rightarrow 46 fms
Start N.N.E. 3.00 p.m.

Sound 4.25 p.m. = 46 fms.

Net up. 4.35, 150 fms cable
out increased to 160.

Start up. 4.55 empty haul
except for coal chinkers,
1 shell, 1 shrimp.

Box red buoy 6.30 p.m.

July 19, 1932

Leave dock 7.25 a.m.

Pass Red #2 buoy 7.52. Run S.

54-32 → (315-295 fms)

Sound ^(bottom) 10.13 a.m. = 315 fms. ^{Lead wh} 10.30.

Heel over 10.35

Bottom 11.25, 900 fms cable out.

12 noon 20 fms more

12.05 25 " "

Start up. 12.15 p.m.

On deck 1.05

Sound 1.10 p.m. = 295 fms

168 fms

55-32 → Run N+E 25 mins

Sound 1.53 p.m. = 119 fms Run S, 10 mins

Sound 2.13 = 168 fms

Heel over 2.20

Bottom 2.57 p.m. 470 fms cable out

Start up 3.28

On deck 3.50 and start home

Sight light 5.42

Pass #2 Red buoy 6.15 p.m.

54-32 315-295
Cymatophila-2 (V)

✓ Haliporus robustus Smith

3 ♂ 6 ♀ 3 immat.

✓ Rochinia crassa (32) Young (of which 7 ♀s and
Styphocrangon (A.M. F.W.) other 25 ♂
2 or 3
Nephropsis aculeata

13 ♂, 8 ♀, 1 Carapace
✓ Geryon quinque-dens 1 ♂ 2 ♀

✓ Polychaetes 2, 3, or 4

✓ Podochela (V) 2 on hem matt of debris
at base of Antipatharians.
Munidias 8-10 thick shined from M

✓ Bathyplex typha 16 ♂, 8 or 9 ♀
(2 ♀ and

(11 ♂ 7 ♀ and 3 ♂ or ♀) 12 this discarded

1 Hermit with shell + 1 empty shell

Got one long to siliceous thread
of siliceous shams gave to de Santenfel.

✓ Crinoid (V) // Antipatharians in low
wide mouth pint. =

#

(2)

54 list of rats V

tiny Actinaria or Scyphomedusa

tiny amphipod.

limpets 3-4 small fr

piece water logged sugarcane.

one little murex
" " murexopsis }

pelagic mollusk.

Ethusa mascarone americana

~~has Cymatopoda in ref. rats.~~

55-32 768 fms

1 Phronima { 4 with Bohynidae
✓ in stomach { 1 with Phigocera like bottle etc 2
in stomach {
Murex 49 (1/2 gal jar)
+ 62 (in another)

✓ Acanthorampus hispidus 1 ♂
✓ " alexanderi (12 ♂ 1 ♀
1 ♂ curat 37 mm wide } small spec
all ♀ " 42 " " } discarded large lot

✓ Bathynoder superba 3 ♂ with
harpades (10 ♀ 7 ♂ 10
and three ♂s the smaller spec in
lot (these spec. in 2 diff. bottles + 1 wide gal. one half gal)

✓ Ramilia 5
Cymogolia

4 small Rochinia crassa and
1 small Bathyplos typha certainly
left in net inadvertently from
previous haul (overlooked in checking
over net which we try to do carefully
each time

Benthocarcin schmitti 2.
3 shells 1/2 biovalve 2 gaster pods are
covered with actinians.

July 22, 1932

56-32. three short
hauls combined

Sept. anchorage 8.56 am.

hauled over 9.45 = 10 min. low

hauled over. 10.10 = 30 " "

hauled over 10.55 = 15 " "

end quite near Inverkeithing;
lived from No. 2 red on north
end to C. 1 black on southern
end.

Start haul in net at

end. 11.10 am.

July 22, 1932

56-32 Three Pans
combined.

Southeast Channel Band
from N. 2 Red to C. 1 Black
buoy. $12\frac{1}{2}$ to 14 fms

first Band 10 mins

second 30 mins

third **15** mins
(two near buoy for longer band)

#56

Nails.

{ amphipods
shell
crab amphipus
junks

{ eggs strings of whale

{ worms & amphipods

{ ~~thrombid under sponge.~~

{ green alga

July 23, 1932 Three hauls ^①

#57-32 = 92-94 fms regular net.

Leave anchorage 7.05 a.m.

Pass #2 red buoy 7.40

Lose sight of light 9.02

Sound 9.15 = 82 fms.

Run S. 5 mins one engine

Sound 9.27 = 92 fms.
(lead up. 9.31)

Net over 9.35

Bottom 9.51 = 260 fms cable

Startup 10.25

Surface 10.40

Sound 10.47 = 94 fms

#58-32 = 94-83 fms; B.F. shrimp
trawl.

Row back over previous course

Net over 10.55

Bottom 11.20 = 270 fms cable

Startup 12.10

Sound ca. 12.20 = 83 fms

#57-32

92-945ms

July 23, 1932 (see also
58+59)

Cicanthracarum.

Stenocranius

Pyromania

Alliasanthus

Ethusa

Sta. 57-32

92-94 fms.

Pyrosoma cuspidata Rathbun

9♂ 1♀ orig
these spec. from all three stations
57, 58, 59-32.

Pyrosoma.

#57

Nat.

{ hydroid fr. Hummel dms.
from large stercoraria.

{ small gill. Ethusa
1 Penicill

{ small cuttlefish. squid.
baby octopus.

Sta. 58-32 = 94-83ms

Pyrosoma cuspidata
Kallman

9♂ 1♀ orig
these specimens from three
Sta's. #57, 58, 59-32

Stenocranus spinosus
5♂ 2♀ (orig) (Sausure)
one from each of three
stations 57, 58, 59-32

Several small Ethusa

" " Porcellana & 1 large
1 young acanthocephalus

1 mollusk, same kind was taken
in 57-32, but lost?

#58

(Nats)

{ 2 Peneids

{ small - darkish
small shell
saphyrozoni.

{ Puerulus larva spring lobster

{ small crab

{ larva of reyland

{ crab megalops

July 23, 1932 (Cont'd)

(2)

59-32 = 83-91 fms. Special
Tow back over previous course net, fine cod-
End.

Net over 12.45

Bottom 1.00 p.m. = 260 fms cable

Add 10 fms cable 1.12 = 270 " "

Start up. 1.45

Up, surface 2.00

Sound " " = 91 fms

Start home 2.10 p.m.

Pass Red buoy 3.46 p.m.

Sta. 59-32 = 83-91 fms.

Pyromania cuspidata

9♂ 1♀ orig. Ralithum
some from each of three
stations #57, 58, 59-32

Stenocinops spinosissima

5♂ 2♀ (1 orig.) (Dausune)
some from each of three
stations, 57, 58, 59-32.

Acanthocarpus alexandri.

5♂ 6♀

Olliacanth 3♂ 2♀ orig.

Ethusa mascaroni americana

2♂ 3♀ 3 juv. (last in vial)

Porcellana zigbeana 1♂

small & large dead globe
urchins.

2 large anemones & 2 small Pyromania

3 shells smallest spine shell with kermit
1 pecten; shells all have knuckles.

59

Vials

{ Prallana sight.

{ 3 Ethna young.

{ 1 Peneid.

{ 2 small munnidas.

{ Amphibirds + worm frog.

{ Pteropod.

July 28, 1932 Dive ①
Hauls, of which first
resulted in net lost and
second and third catches
combined, otherwise
separate.

#60-32 Trawl haul, net
lost.

Leave dock 6.45 Pass
red buoy 7.15. Start
Sound (1h. 20 min) 8.35 a.m.

51 fms. cable out 160
fms haul in 9.43, net
gone except for cork line.

Sound: 9.53 = 57# fms

#61-32 Trawl back, shrimp
haul (57-46 fms.
net overboard at 10.17 150 fms
cable. Start up. 10.30
Surface 10.37 Sound 46 fms. 10.45 a.m.

July 28, 1932 (cont'd) ②

#62-32 ^{Down back} (Specimens of
61 and 62-32 combined)
(Depth for two = 57-46 fms)

Sound 10.45 am. = 46 fms.

Net over 10.50

Bottom 11.02 150 fms cable

Start up. 11.30

Sound " " = 50 fms

#63-32 = 50-58 fms
(Down back)

Net over 11.40

Bottom 12 noon = 160 fms
cable

Start up. 12.37

Deck 12.47

Sound 12.50 = 58 fms

July 28, 1932 (Cont'd) (3)

#64-32. 58 - 55 fms

Sound 12.50^{back} = 58 fms
Net over

Bottom 1.07 160 fms cable out

Start yp. 1.38

Surface 1.47

Deck 1.50

Sound 1.53^{pm} = 55 fms

+ Start time

July 30, 1932

65-32

580 (to 547)
fms fms

Leave dock 4.40 a.m.

Pass Red buoy 5.10.

St. J. road, from 8.48 } = 501 fms
to 9.15 }

Run south, st. J.
and road from 9.30 } = 462 fms
to 9.55 }

Run south, st. J.
and road from 10.21 } = 580 fms
to 10.35 }

Let over. 10.35; 1290 fms
cable out

Shed anchored, 11.01 start up

At surf. 1.47 p.m.
Sounding faulty? = 547? fms.
Returned home about 9 p.m.

Aug. 1, 1932

66 - 32 = 138 - 140 fms
(towed east)

Secure dock. 7 a.m.

Pass buoy 7.24

St. J. + sound 9.20 = 138 fms

het over 9.25; 394 fms
cable.
@ 10.10 a.m.

Start up. 10.40.

fleck 11.00

Sound 11.05 = 140 fms

67 - 32 140 - 197 fms

(towed west)

het over 11.19

Bottom 11.50; 400 fms cable
out.

Start up. 12.20.

fleck 1.00 p.m.

Sound 1.07 = 197 fms

#67.

Mundas 2 kg gal

Benthococcus 2

Bathypoda
superba doz

Acanthocarpus
alexandri

Aug. 1 (cont'd)

68-32

197-5 plus fms.

het me. 1.15.

Bottom

2.15 = 600 fms
cable out.

2.25 = 25 fms more
cable.

Start wh. 2.45

Heck. 3.15 or 3.20

Lead wh (? sounding) + start

home. 3.43 p.m.

Ross buoy ^(#2 red) 6.10 p.m.

68 r

Benthocum 2

~~Bathynotus~~
~~infelix~~ doz

Ok. ~~Sargomunda~~ 3-4
- - - - - set - - -

Muscidopsis

Polyporus a Penes 3-4

Aug. 3, 1932 (winter)

#69-32

Leave dock 5.00 a.m.

Pass #2 red buoy 5.35

Stk + sand. 7.45 = 334 fms

Run N. and
sound = 249 fms.

Cable and 9.25 = 700 fms
9.50 = 770 "

#70

Sounded (at end of previous haul
also start of second haul.) = 358 fms.

put dredge over, anchored ship
after 250 fms cable were
paid out,

Aug. 5, 1932 (Manter)

#71-32 first haul.

= 190-280 fms

Run 2 hrs S. Red buoy.

Sound = 299 fms.

Run N. 12 mins

Sound 190 fms

Net over, ^{about} 45 min haul

Sound at end, 280 fms

#72-32 = 130-112 fms.

Sound beginning 130 fms

Hauled 40 mins.

Sound at end 112 fms

mostly mud

Aug. 5, 1932 (Manter)
^ Cent'd

73-32 = 66-60 fms.

Sound 66 fms.

Hauled net 30 mins

Sound 60 fms

74-32 = 60-60 fms

Sound 60 fms

Hauled net 30 mins

Sound 60 fms

#73-32

Portunus spinicarpus

42 ♂

12 ♀ (1 with damaged zoeae)

23 org

Acanthocarpus alexandri

3 ♀

17 ♂

74-32

Polistes spinicaulus

31 ♂ (12/11)

53 ♀ (4/20/11) plus 1 female with
and 9 orig. female saved

Acanthocarpus distans

4 ♂ 1 ♀

Aug. 6

Port. marginalis

#48 (1 lg. 2 med
1 small)

57 (1 lg. 4 small)

discarded

Williams fish # 185.

June 17. - 40 fms.

Halentidius aculeatus

(2 3/4")

1 shrimp, Proceres canaliculata
about 1 cm. long. Seach.

Williams fish # 255

June 23, 1932; 8-10 fms.

Syacium papillosum

(8 1/2")

1 shrimp, Crangon sp? either
packardii or floridanus

each chelipeds. both of Kingseley
nearly 2 cm. wide

1 crab, Parthenope serrata

small, broken perhaps
1 cm. wide

Williams fish # 291

June 26, 1932, 70 fms.

Squilla venusta

4 specimens, Pandalus species, near

(5 1/4")
Squilla
Pandalus

Mantis fish # 1200
June 27, 1932, 70 fms.
Scorpaena agassizi (6")
1 crab, Pilumnoplax data
(A. M. Edw.)
1 young female carapace
about 1 cm. wide.

Mantis fish # 1221 - 60 fms
June 30, 1932, - 125 fms
Holosema dilectum
crabs, Acanthocarpus
alexandri Stimpson
5 small young, carapaces
from 3-4 mm. wide.

Mantis fish # 1227
June 30, 1932, 60 fms.
Scorpaena agassizi (5")
crabs. Pilumnoplax data (A. M. Edw.)
3 small carapaces 1 cm, 7 mm, 7 mm wide

Williams Fish # 346

July 2 1932. 156-135 lbs.
Paralichthys oblongus (9")

1 young Acanthocarpus
alexandris & Stimpson.
carapace about 4.5 mm wide.

Thomson for hardening
fish, fish of July 2 or June
30, got one small

crab Pilumnoplax elata
(A. M. S. det.) 1 young female
carapace 1 cm. wide

(Compare mantle fish, 1200 and
1227).

Gnathypops July 5, 1932.

tail of shrimp zoea

small hermit crab

(?one of symmetrical Pylochelidae?)

2 small barnacles, viscera of
a else larvae at a very
advanced stage

2 ostracods, and perhaps remains
of others

1 Canaid isopod

hinder third of small amphipod.

dozen odd copepods, several
species, or else one species and
larvae

2 small shells, ^{gastropod} and, several
just hatched, or unhatched eggs
containing shells & gastropods.

Williams Fish:

June 23-'32:

255

1 Crangon floridanus (Kingsley)
3/4 inch long

1 Parthenopid ("spider" crab)
? Heterocrypta granulata (Gibbes)
perhaps 5/16 inch wide

Williams Fish:

189. ^{crab.} Goneplax barbata (A.M. Edwards)
18 5/16 in wide

257 ^{crab.} Euryplax nitida Stimp.
18 about 1/2 in wide

258 ① ^{shrimp.} 1 small Eusicyonia 3/8 in long

② ^{shrimp} Crangon floridanus (Kingsley) 2
larger 3/4 inch long, others frags.
but about 1/2 size.

③ ^{shrimp.} Upogebia ant. end of
small spec.

④ ^{crab} Frags. and claw of what
appears to be Euryplax
nitida small spec.

⑤ ^{hermit} Anterior end of small
hermit crab.

⑥ ^{spider crab.} 1 small? Heterocrypta granulata
(Gibbes) probably carapace about 1/4 in
wide.

Syngnathus